	Application No.	Applicant(s)	
Notice of Allowability	10/618,820	CHEN ET AL.	
	Examiner	Art Unit	
	Steven E. Holton	2673	
The MAILING DATE of this communication app All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85 NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT R of the Office or upon petition by the applicant. See 37 CFR 1.31	S (OR REMAINS) CLOSED () or other appropriate comm RIGHTS. This application is	n this application. If not included unication will be mailed in due cours	se. THIS
1. This communication is responsive to 11/28/2005.			
2. X The allowed claim(s) is/are 1-18.			
 3. Acknowledgment is made of a claim for foreign priority units a) All b) Some* c) None of the: 1. Certified copies of the priority documents have 2. Certified copies of the priority documents have 3. Copies of the certified copies of the priority documents have International Bureau (PCT Rule 17.2(a)). * Certified copies not received: 	re been received. re been received in Applicati	on No. <u>09/661,289</u> .	rom the
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDON! THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.	MENT of this application.		
4. A SUBSTITUTE OATH OR DECLARATION must be subr INFORMAL PATENT APPLICATION (PTO-152) which give			E OF
5. CORRECTED DRAWINGS (as "replacement sheets") mu	ist be submitted.		
(a) ☐ including changes required by the Notice of Draftsper	son's Patent Drawing Revie	w (PTO-948) attached	
1) 🗌 hereto or 2) 📗 to Paper No./Mail Date			
(b) ☐ including changes required by the attached Examiner Paper No./Mail Date Identifying indicia such as the application number (see 37 CFR)			d of
each sheet. Replacement sheet(s) should be labeled as such in			., •.
 DEPOSIT OF and/or INFORMATION about the deposit attached Examiner's comment regarding REQUIREMENT 			the
Attachment(s) 1. Notice of References Cited (PTO-892)	5. ☐ Notice of I	nformal Patent Application (PTO-152	2)
2. Notice of Draftperson's Patent Drawing Review (PTO-948)	6. ☐ Interview S	ummary (PTO-413),	•
3. Information Disclosure Statements (PTO-1449 or PTO/SB/	Paper No (08), 7. ☐ Examiner's	/Mail Date Amendment/Comment	
Paper No./Mail Date 4.	8. 🛛 Examiner's	Statement of Reasons for Allowand	ce
	9. 🗌 Other	<u>-</u> -	

Application/Control Number: 10/618,820

Art Unit: 2673

Reasons For Allowance

This Office Action is made in response to applicant's amendment filed on
 11/28/2005. Claims 1-18 are currently pending in the application. An action follows below:

Response to Arguments

- 2. The Applicant's amendments to the objected claims to standardize the presentation of the mathematical equations in the claims with the terms used in the specification are acceptable and the objections are withdrawn.
- 3. Applicant's arguments, see pages 13 and 14, filed 11/28/2005, with respect to claims 1 and 8 have been fully considered and are persuasive. The rejection of claims 1 and 8 under 35 USC 112 2nd paragraph has been withdrawn in light of the amendments to the claims.

Allowable Subject Matter

4. Claims 1-18 are allowed.

The following is an examiner's statement of reasons for allowance:

The present invention is directed to a liquid crystal display with a gray level switching system to optimize the driving voltages used to change a pixel from one level of gray to a second level of gray. Each independent claim identifies the uniquely distinct features "determining an optimized driving voltage $V_d(t)$, according to an equation $V_d(t) = V_o(t-1) + ODV$ " and "determining an dynamic gray level data $G_d(n)$ according to an equation $V_d(t) = a \times G_d(t)^3 + b \times G_d(t)^2 + c \times G_d(t) + d$ ". The closest prior art, Usui et al. (USPN: 5347294) and Lee et al. (USPgPub: 2004/0189568) disclose methods of driving

liquid crystal displays and providing correction voltages to change display characteristics, but lack the specific equations used by the applicant, either singularly or in combination, fail to anticipate or render the above underlined limitations obvious.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Steven E. Holton whose telephone number is (571) 272-7903. The examiner can normally be reached on M-F 8:30-5.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Bipin Shalwala can be reached on (571) 272-7681. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic

Business Center (EBC) at 866-217-9197 (toll-free).

Steven E. Holton February 1, 2006 Art Unit 2673

VIJAY SHANKAR PRIMARY EXAMINER

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